PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: MOTOROLA EUROPEAN INTELLECTUAL

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND

PROPERTY OPERATIONS Attn. McCormack, Derek J. Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PL	THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
UNITED KINGDOM	(PCT Rule 44.1)			
	Date of mailing (day/month/year) 11/10/2004			
Applicant's or agent's file reterence				
CE11295N	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No.	International filing date			
PCT/EP2004/050596	(day/month/year) 23/04/2004			
Applicant MOTOROLA INC				
The applicant is hereby notified that the international searce Authority have been established and are transmitted herew	th report and the written opinion of the International Searching with,			
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clair	ms of the International Application (see Rule 46):			
When? The time limit for filing such amendments is no				
Where? Directly to the International Bureau of WIPO, 3 1211 Geneva 20, Switzerland, F	4 chemin des Colombettes fascimile No.: (41–22) 740.14.35			
For more detailed instructions, see the notes on the acc	ompanying sheet.			
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.				
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the ap	pplicant will be notified as soon as a decision is made.			
4. Reminders				
Shortly after the expiration of 18 months from the priority date, to international Bureau. If the applicant wishes to avoid or postpone application, or of the priority claim, must reach the International Bufore the completion of the technical preparations for international preparations.	e publication, a notice of withdrawal of the international Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively,			
The applicant may submit comments on an informal basis on the International Bureau. The International Bureau will send a copy of international preliminary examination report has been or is to be the public but not before the expiration of 30 months from the pri	of such comments to all designated Offices unless an established. These comments would also be made available to			
Within 19 months from the priority date, but only in respect of so examination must be filed if the applicant wishes to postpone the date (in some Offices even later); otherwise, the applicant must, acts for entry into the national phase before those designated Of	entry into the national phase until 30 months from the priority within 20 months from the priority date, perform the prescribed			
In respect of other designated Offices, the time limit of 30 month months.	ns (or later) will apply even if no demand is filed within 19			
See the Annex to Form PCT/IB/301 and, for details about the ap Guide, Volume II, National Chapters and the WIPO Internet site.	plicable time limits, Office by Office, see the PCT Applicant's			

Name and mailing address of the International Searching Authority Authorized officer

European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Stylianos Vasilakis

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant warts the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international pulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published,

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled:
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples litustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- (Where originally there were 15 claims and after amendment of all claims there are 11): "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended, it must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for International preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220			
CE11295N	ACTION	as wel	l as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)		(Earliest) Priority Date (day/month/year)			
PCT/EP2004/050596	23/04/2004		09/05/2003			
Applicant						
Learning to the second						
MOTOROLA INC						
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.						
This International Search Report consists	of a total of she	ets.				
X It is also accompanied by	a copy of each prior art document ci	ed in this	report.			
Basis of the report						
With regard to the language, the it tanguage in which it was filed, unli	international search was carried out of ess otherwise indicated under this its	in the ba m.	sls of the international application in the			
The international state of this Authority (Rul		f a transl	ation of the international application furnished to			
b. With regard to any nucleo	otide and/or amino acid sequence	tisclosed	in the international application, see Box No. 1.			
2. Certain claims were four	2. Certain claims were found unsearchable (See Box II).					
3. Unity of invention is lack	3. Unity of invention is lacking (see Box III).					
4. With regard to the title,						
x the text is approved as submitted by the applicant.						
the text has been established by this Authority to read as follows:						
	· ·					
5. With regard to the abstract,						
the text is approved as sui		a Authori	h, on it general in Pay No. IV. The continues			
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The application may, within one month from the date of mailing of this international search report, submit comments to this Authority and the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The application may, within one month from the date of mailing of this international search report, submit comments to this Authority as it appears in Box No. IV. The application may, within one month from the date of mailing of this international search report, submit comments to this Authority as it appears in Box No. IV. The application may, within one month from the date of mailing of this international search report, submit comments to this Authority and the search report, submit comments to the search report.						
6. With regards to the drawings,						
a. the figure of the drawings to be po	o. <u> </u>					
X as suggested by the	• •	_	_			
l = :	s Authority, because the applicant fai s Authority, because this figure better	_				
	s Authorny, because this lighte better published with the abstract.	G ICI CUE	alzes did Invertuon.			
L.J at an idea of the polyment and another						

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/050596

4 01 100	TO A TION OF CHOISOT HATTED						
IPC 7	H04Q7/38 H04L12/18 H04L12/	56					
According t	According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELOS	SEARCHED						
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 H04Q H04L							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic o	data base consulted during the international search (name of data ba	ase and, where practical, search terms used	ŋ				
EPO-Internal, WPI Data, PAJ, INSPEC							
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No.				
Y	3GPP TSG-RAN2/3 Joint MBMS Meeting #1, Wokingham, Berks, UK, 15-16th January 2003; 3gpp document Tdoc R2-030063 cited in the application XP002259501 the whole document						
Y	TSG_RAN Meeting #19, Birmingham UK, 11-14 March 2003; Satus Report of WI "Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN; XP002259502 page 2, lines 40-42						
Funt	Further documents are listed in the continuation of box C. Patent family members are listed in annex.						
*Special categories of cited documents: *A* document defining the general state of the art which is not considered to be of particular relevance: *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another clation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *X* document member of the same patent family							
Date of the	Date of the actual completion of the international search Date of malling of the international search report						
4	October 2004	11/10/2004					
Name and n	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax. (+31-70) 340-3016	Weinmiller, J					

PATENT COOPERATION TREATY

-rom the NTERNAT	IONAL SEA	RCHING AUTH	ORITY			
То:					PCT	
	see form	PCT/ISA/220	:		ITTEN OPINION OF ONAL SEARCHING	
			! :		(PCT Rule 43bis.1))
				Date of mailing (day/month/year)	see form PCT/ISA/210 (secon	 nd sheet)
	or agent's file			FOR FURTHE		
	 application 004/05059		International filing date (c 23.04.2004	! lay/month/year)	Priority date (day/month	year)
			both national classification	and IPC		
H04Q7/38	3, H04L12/	118, H04L12 <i>I</i> 56	<u> </u>			
Applicant			•			
MOTOR	DLA INC					
1. This	opinion co	ontains indicati	ons relating to the folk	owing items:		
⊠ 8	Box No. I	Basis of the or	oinion			
⊠ E	Box No. II	Priority .	•			
	Box No. III	Non-establishr	ment of opinion with rega	ard to novelty, inver	ntive step and industrial ap	plicability
	Box No. IV	Lack of unity o	f invention	•		
⊠ E	Box No. V		ement under Rule 43bis tations and explanations		to novelty, inventive step tatement	or industrial
	lox No. VI	Certain docum	ents cited			
	lox No. VII		s in the international app			
. 🗆 🗉	lox No. VIII	Certain observ	rations on the internation	al application		
2. FUR	THER ACT	ION				
writte the a Inter	en opinion o pplicant che	of the Internation coses an Author reau under Rule	al Preliminary Examining ity other than this one to	Authority ("IPEA") be the IPEA and the	will usually be considered to a considered to considered to a considered to a considered to a considered to a	apply where ed the
subn mont	nit to the IPI	EA a written repleted a written repleted to the contract of mailing	y together, where approp	oriate, with amendr	ne IPEA, the applicant is in ments, before the expiration on of 22 months from the p	on of three
For further options, see Form PCT/ISA/220.						
3. For f	urther detai	ls, see notes to l	Form PCT/ISA/220.			
Name and r	nailing addre	ss of the ISA:		Authorized Officer	,	
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<i>9</i>))		Patent Office - P.E V Rijswijk - Pays	3. 5818 Patentlaan 2 Bas	Weinmiller, J		
	Tel. +31 7	0 340 - 2040 Tx: 3		Telephone No. +31	70 240-2094	
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JC09 Rec'd PCT/PTO 20 OCT 2005

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/050596

_							
_	Box	· No	o. I Basis of the opinion				
1.	. With regard to the language , this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.						
		lan	is opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search lader Rules 12.3 and 23.1(b)).				
2.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. ty	/pe	of material:				
		-	a sequence listing				
		3	table(s) related to the sequence listing				
	b. format of material:						
	in written format						
	☐ in computer readable form						
	c. time of filing/furnishing:						
	☐ contained in the international application as filed.						
		_	filed together with the international application in computer readable form.				
	C		furnished subsequently to this Authority for the purposes of search.				
3.		has	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/050596

	Во	x No. II	Priority	_				
1.	The following document has not been furnished:					d:		
		፟	∞py of the earlier a	applicatio	n whose p	riority has been claimed (Rule 43bis.1 and 66.7(a)).		
			translation of the ea	arlier app	lication wh	ose priority has been claimed (Rule 43bis.1 and 66.7(b)).		
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.							
2.	2. This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.							
3.	Add	ditional o	bservations, if neces	ssary:				
_								
		x No. V ustrial a	Reasoned statem applicability; citation	nent und	ler Rule 43 explanatio	bis.1(a)(i) with regard to novelty, inventive step or ns supporting such statement		
1.	Sta	tement			·			
	Nov	vetty (N)		Yes: No:	Claims Claims	1-34		
	Inve	entive st	ep (IS)	Yes:	Claims	2-15, 17, 19-32, 34		
				No:	Claims	1, 16, 18, 33		
	Indu	ustrial ap	oplicability (IA)	Yes: No:	Claims Claims	1-34		
2.	Cita	ations an	d explanations					

see separate sheet

Re Item V.

- 1. The following documents are referred to in this communication:
 - D1: 3GPP TSG-RAN2/3 Joint MBMS Meeting #1, Wokingham, Berks, UK, 15-16th January 2003; 3gpp document Tdoc R2-030063 XP002259501
 - D2: TSG_RAN Meeting #19, Birmingham UK, 11-14 March 2003; Satus Report of WI "Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN; XP002259502

INDEPENDENT CLAIM 1

- a) The present application does not meet the criteria of Article 33(1) PCT, because the subject matter of claim 1 does not involve an inventive step in the sense of Article 33(3)PCT.
- b) Document D1, which is considered to represent the most relevant state of the art to the subject matter of claim 1, discloses (the references in parenthesis applying to this document):
 - a method for controlling access to a Multimedia Broadcast Multicast Service comprising: determining a number of mobile stations subscribed to the MBMS service and maintaining an active connection (see D1, paragraph 2, line 1-2); broadcasting a control message (see D1, paragraph 3.2.1, line 4); receiving from each of one or more idle mode mobile stations, a response to the control message (see D1, paragraph 3.2.1, line 4); comparing the number of received responses to a threshold to produce a comparison (see D1, paragraph 2, line 8); and determining whether to establish a point-to-multipoint communication or a point-to-point communication based on the comparison (see D1, paragraph 2, line 8-9).
- c) The subject-matter of independent claim 1 differs from the disclosure of D1 in that an access probability factor is determined which is comprised in the broadcast control message.
- d) In view of D2 the solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

The additional feature of setting an access probability factor for UE counting in

MBMS is described in document D2 (see D2, page 2, line 40-42) as an improvement for the method from D1. It is therefore providing the same advantages as in the present application. The skilled person would therefore regard it as a normal option to include this feature in the method described in document D1. Also this access probability factor is described in D2 (see D2, page 2, line 40-41) to address the same problem as the application intends to solve according to page 2, line 25-28.

- e) Therefore the features disclosed in D1 and D2 would be combined by the skilled person, without exercise of any inventive skills in order to solve the problem posed. The proposed solution in independent claim 1 thus cannot be considered inventive (Article 33(3) PCT).
- 3. Since the subject-matter of each of independent claims 16, 18, 33 corresponds to the subject matter of claim 1, the same reasoning as given for claim 1 will apply mutatis mutandis.

Therefore claims 16, 18, 33 also do not meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).